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Imation

RipGO!™

Mini CD-R Burner and Digital Audio Player

User's Guide

Designed for Windows Media™

Copyright Law and Trademark

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1.0 Introduction

1.1 About the RipGO! Device

The **RipGO!** device is a mobile 8 cm CD-Recordable drive with built-in compressed digital file playback. It's the first portable burner designed expressly with today's music enthusiast in mind: it can play both MP3 and WMA files. Furthermore, the **RipGO!** device can be used to backup crucial files, store data and create your own digital image library. The **RipGO!** device gives a whole new meaning to burning on the fly. Its simple Plug and Play USB connection and battery pack enable you to listen to and record music on the go and around the world. Everything you need to start recording CDs is in the box – from the total MP3 solution and powerful burning software to the blank CD-Rs. Get more of what you want in a CD-Recordable drive: simplicity, value and versatility – all backed by superior reliability. The **RipGO!** device is the ideal all-in-one solution on the market for a CD-R drive and MP3 player.

Back-up and Archive Important CDs

When attached to a computer with the USB cable, the **RipGO!** device becomes a CD-Recordable drive. A single 8 cm CD-Recordable disc can store up to 180MB of data, the same amount as 125 floppies, making CD-Recordable a cost-effective way to back-up data. The CD-Recordable drive gives you the option of creating permanent data archives on CD-R media. Create reliable, custom CD-Rs that can be shared with more than a billion CD, CD-ROM and DVD-ROM players around the world.

Distribute and Share Files

Using expensive, proprietary, removable media to share your files can quickly become a costly process, and you can't be confident that other users can access the data. The **RipGO!** CD-Recordable drive provides the perfect low-cost solution, because affordable and reliable CD-R discs can be read by standard CD-ROM drives.

Create Music and Digital Audio Compilations[1]

You can record up to six hours of your favorite music on a single 8 cm CD-R disc. The CD-Recordable drive lets you store and compile your digital music collection in multiple formats, such as MP3, WAV, WMA and more. Storing your digital music tracks on a CD-R disc instead of your hard drive will free resources on your computer, letting you do more.

Listen to Music on the Go

The **RipGO!** device is also a mobile WMA and MP3 player: you can playback your personalized music CDs on the move. Listen to a maximum of three hours of skip-free MP3 music or 6 hours of WMA music on a single CD with the **RipGO!** device's powerful 5-hour rechargeable Lithium-Ion battery technology. Enjoy your music anywhere, anytime you want it.

1.2 Software

Installation of the **RipGO!** device is about as easy as it gets. The drive's Quick Setup Guide takes you through the steps of installing the drive and its drivers, and it includes an overview of the software installation, complete with screenshots of the applications. The manuals for the **RipGO!** device are on the installation CD and include the drive's functions and features, plus some simple troubleshooting. The easy-to-use bundled software allows you to copy an entire disc[1], specific files, and even create a personalized digital photo album or MP3 collection.

Your installation CD contains USB storage device drivers and the burning software.

• USB Storage Device Drivers

- USB storage device driver for Windows 98SE, provided on the Installation CD.

  NOTE: The **RipGO!** device uses the generic drivers of Windows 2000, Windows Me and the Mac OS (9.X). No additional drivers are needed when using these operating systems.

• Recording/Player Software

The burning software allows you to:

- rip a CD[1] and encode it as an MP3 or other compression algorithm such as WAV or WMA.
- burn CDs of different writing types: track at once, disc at once, session at once and multi-session.
- record files of all types (documents, spreadsheets, video and audio files, etc.).
- play back audio tracks of different formats.

1 Please refer to Copyright Law and Trademark information on Page 2.

1.3 System Requirements

For PC:

- Microsoft Windows 98SE, Windows 2000, Windows Me or Windows XP.
- 200MHz or higher (Pentium II or better recommended for MP3 encoding).
- 32MB RAM (64MB recommended).
- SVGA graphics adapter (256 colors, 800 x 600) or higher resolution.
- USB 1.1 port.
- 25MB free hard disc space (more for audio content storage).
- CD-ROM drive.
- Internet connection for Internet content downloading recommended.

For Mac:

- Mac OS version 9.X.
- iMac,™ G3 or higher.
- 32MB RAM (64MB recommended).
- USB 1.1 port.
- 25MB free hard disc space (more for audio content storage).
- CD-ROM drive.
- Internet connection for Internet content downloading recommended.

2.0 Knowing Your RipGO! Device

2.1 What you get!

The **RipGO!** package contains the following items:

1) One Power Adapter

2) One **RipGO!** Device

3) One 1.5m USB Cable

4) One Headphone Set

5) One 8cm **RipGO!** Installation CD, and Two Imation CD-Rs (8cm).

6) One Battery Pack

2.2 Location of Controls

Figure 2.2 – Location of Controls

1. –Volume Button

This button is used in play mode to reduce the output volume, in track selection mode to scroll down the file listing, in contrast mode to reduce LED display intensity and in balance mode to shift the balance to the left ear.

2. +Volume Button

This button is used in play mode to increase the output volume, in track selection mode to scroll up the file listing, in contrast mode to increase LED display intensity and in balance mode to shift the balance to the right ear.

3. EQ Button

This button modifies the Equalization settings of the unit as follows:

Normal: Flat Response.

Rock: Heavy Bass and Heavy Treble Boost.

Pop: Slight Bass and Treble Boost.

Jazz: Heavier Bass Boost with Slight Treble Boost.

Classic: Slight Treble Boost.

Techno: Heavy Bass Boost.

Salsa: Very Slight Bass Boost with Heavier Treble Boost.

4. Shuffle Button

This button toggles between playing tracks in sequential or random order. The Shuffle button is also used in adjusting LCD contrast. During play, press and hold the Shuffle button and use the +Volume and –Volume buttons to change the contrast.

5. Play/Pause Button

This button activates initial power-on if the **RipGO!** device is powered-off. If the button is pressed when the **RipGO!** device is powered-on, the unit starts to play or if playing, pauses play of the selected audio track(s).

NOTE: When in USB mode, press and hold this button to disconnect.

6. Repeat Button

This button toggles between continuous (repeat) or one-time (no repeat) playing of a single selected audio track or a selected track play sequence. The Repeat button is also used in adjusting the audio output balance. During play, press and hold the Repeat button and use the +Volume and –Volume buttons to change the balance.

7. Stop Button

This button has a variety of functions depending on the mode of the **RipGO!** device.

1. If currently playing an audio track, it stops the play.
2. If not currently playing an audio track and no power adapter or USB cable is attached, it causes the **RipGO!** device to power-down.
3. If not playing an audio track, no USB cable is attached and a power adapter is attached, it causes the **RipGO!** device to enter battery charging mode (if the battery is less than full charge) or to power-down (if the battery is at full charge.)
4. If not currently playing an audio track and an active USB cable is attached, the unit enters USB mode.

8. Skip Forward Button

Momentary depression of this button is used during play mode to skip to next track.

If the button is held down, then play position is moved forwards through the current track (cue).

This button is used in track select mode to move into current selected directory.

9. Skip Back Button

Momentary depression of this button is used during play mode to restart current track.

If the current playing track is within one second of its start playtime, then the previous track is re-started unless in random play mode.

If this button is held down, then the play position is moved backwards through the current track (rewind).

This button is used in track select mode to move to parent directory.

10. Hold Switch

When activated, this slide switch disables the operation of any button pressed. This prevents the user from accidentally altering device operation.

> **CAUTION!** If the **HOLD** switch is activated during initial power-on, no power will be applied to the **RipGO!** device since the **PLAY** button is disabled.

11. Open Switch

This switch opens the lid and the disk is immediately spun down. If the device is not currently connected to a host, then the drive is powered-down. Media removal is prevented during write operations.

12. Line Out/Headphone Switch

Slide this switch to Line Out when using external speakers, and to Headphone when using headphones.

13. Battery Compartment

For safety reasons, the **RipGO!** device is shipped with the battery pack removed from the battery compartment.

14. Battery Release Clips

The release clips secure the battery pack in the battery compartment.

15. Power Reset Switch Access

If the **RipGO!** device stops responding, insert and push a pin into the reset access hole on the underside to activate the reset switch. This will reset the **RipGO!** device.

16. LED

The LED is tri-color: green, red and orange.

The LED is orange when a disc is spinning up.

The LED is green when a disc is being accessed.

The LED is red when a write (or test write) operation is in progress.

Drive State	LED
No disc inserted	Off
Disc loading	Blinking orange
Disc loaded and ready	Solid green
Disc in/power save/non powered mode	Off
Read or verify activity	Blinking green
Writing	Solid red
Test write	Blinking red

17. Audio Output Socket

Analog Audio is available via this socket. The Line Out/Headphone switch allows you to switch between lineout and headphone audio. Headphone volume is controlled using the volume control buttons on the top of the **RipGO!** device.

For Line Out function, you need an additional cable to connect your speakers to this socket. The **RipGO!** device volume is set to half while the speaker volume is set to minimum. Slowly increase the speaker volume to the most comfortable level.

18. USB Port

The USB terminal is a mini USB socket located on the rear of the device. A USB cable is included for connecting the **RipGO!** device to the host computer.

CAUTION! Do not use USB extension cables with your **RipGO!** device, as data loss may result.

19. Power Socket

Socket for connection to the supplied power adapter.

CAUTION! Use only with the supplied power adapter. The **RipGO!** device may be damaged when used with other power adapters.

2.3 Screen Icons

The following table describes the various icons that may appear on the **RipGO!** device screen.

Icon	Description
Norm, Rock, Pop, Jazz, Class, Tech, Sals	EQ Settings: Displays the EQ setting selected.
	Battery Level: Displays charge level remaining in battery.
	Volume Indicator: Displays currently selected volume level.
▶▶	Skip Forward: Displayed when Skip Forward button is pressed.
◀◀	Skip Backward: Displayed when Skip Backward button is pressed.
▶	Playing: Displayed when currently selected track is playing.
▮▮	Pause: Displayed when currently playing track is paused.
▶Si◀	Stereo: Displayed when the track playing is in stereo.
	Repeat Mode: Displayed when Repeat option is selected.
	Shuffle Mode: Displayed when Shuffle option is selected.
	Balance: Displayed when adjusting the audio balance.
	Contrast: Displayed when adjusting the LCD panel contrast.

3.0 Using the RipGO! Device as an Audio Player

As a portable Audio Player, the **RipGO!** device can be powered using a single rechargeable Lithium-Ion battery. Use the power adapter when the battery is weak.

NOTE: Before first use, charge the battery continuously for 3 hours. Connect the power adapter, press the Play button and then the Stop button to initiate battery charging.

The **RipGO!** device supports both compressed audio (MP3 and WMA files) and normal music CDs. You can organize your favorites into different directories or using a playlist file (with extension .m3u).

The **RipGO!** device searches and displays the playable contents in the entire disc using its 4-line LCD display. Browse through the display to select tracks (see Section 3.6). You can choose to play the entire disc, selected directory, selected track(s) or from a playlist file.

3.1 Setting Up the RipGO! Device

3.1.1 Inserting the Battery Pack

NOTE: The Battery Pack must be inserted when operating the RipGO! device with the power adapter.

1. Locate the Battery Pack that comes with your **RipGO!** device.
2. Ensure you have it in the correct orientation, Figure 3.1.1, and push it firmly into the battery compartment (located on the underside of your **RipGO!** device) until two "clicks" are heard as the retaining clips engage. Press near each side of the battery assembly to be sure both sides "click." If it appears that either clip is not engaged, press outward on the clip with a fingernail or small screwdriver while pressing inward on the battery. Failure to engage the clips may make the RipGO! device work intermittently, since the battery terminals are not making proper contact.

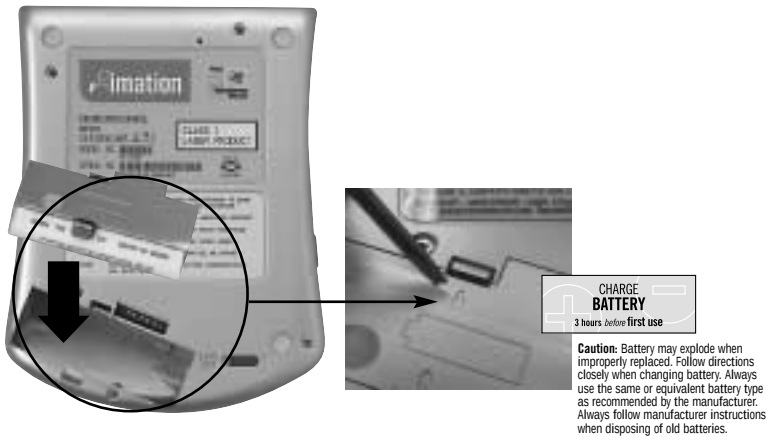


Figure 3.1.1 – Inserting Battery Pack

3.1.2 Charging the Battery

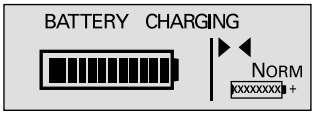
Refer to Appendix A-3 "Using and Replacing Battery" for important safety and handling information.

The Battery Pack comes with a rechargeable Lithium-Ion battery already installed. The **RipGO!** device will charge the battery when in the Battery Charging mode.

Charging for the First Time:

1. Connect the power adapter to a wall mount power socket and plug the DC jack into the **RipGO!** device. Power the unit on by pressing **PLAY** ⏯ and then off by pressing **STOP** ⏹ .

   NOTE: The RipGO! device may not activate if the battery level is extremely low (<1.7v). When this happens, wait about 15 minutes and try again.



2. The drive will now enter the battery charging cycle and the LCD displays **BATTERY CHARGING**.
3. Once the battery is fully charged, **CHARGING COMPLETED** will be shown on the LCD display. Press the **STOP** ■ button to power-off the device.
4. The battery will take approximately 3 hours to be fully charged.

Recharging Battery:

Quick charge: With the **RipGO!** device powered-off, recharge for one hour to take battery to approximately 80% of its total charge.

NOTE: On occasion, the following symbol may be displayed on the RipGO! device: This indicates that the battery charging cycle has ceased before the battery has been fully charged. To complete the charge, carry out the following steps:

1. Power-off your **RipGO!** device by pressing the **STOP** ■ button.
2. Unplug the power adapter and wait 15 seconds.
3. Reinsert the power adapter.
4. Press the **PLAY** ▶❙ button and allow your **RipGO!** device to Wake-Up.
5. Press the **STOP** ■ button to commence battery charging.

The **RipGO!** device will now complete the battery charging process.

Replacing the Battery Pack:

The Lithium-Ion battery has a limited life span. Should there be a need to replace the battery, you have to replace the whole battery pack. Please check with Imation for availability of new battery packs. (Refer to Appendix C for contact information).

CAUTION! The **RipGO!** device battery comes complete with protection circuitry to safeguard the battery. Under no circumstances should you replace the battery with other than the type specified.

1. Locate the battery pack on the underside of your **RipGO!** device.
2. Squeeze the two release clips of the battery pack towards each other.
3. Holding the **RipGO!** device, pull the battery pack out.
4. Insert the new battery pack as described in the above section "Inserting the battery pack."

CAUTION! Battery may explode when improperly replaced. Follow directions closely when changing battery. Always use the same or equivalent battery type as recommended by the manufacturer. Always follow manufacturer instructions when disposing of old batteries.

3.2 Inserting and Removing a CD

3.2.1 Inserting a CD:

Figure 3.2.1 – Inserting a CD

1. Slide the open switch on the left-hand side of the **RipGO!** device towards the front of the drive. This will release the lid.
2. Insert the CD by pushing it gently onto the spindle while gripping it on either side and pressing in the middle.

NOTE: The RipGO! device is shipped with a Card Lock to protect the optical pick up head. Remove the Card Lock before inserting a CD for the first use.

3. Gently push the lid closed, on the left-hand side, until it "clicks."

3.2.2 Removing a CD:

Figure 3.2.2 – Removing a CD

1. Slide the open switch on the left-hand side of the **RipGO!** device towards the front of the drive. This will release the lid.
2. Remove the CD by pulling it gently from the spindle while gripping the outer edge of the disc.

3.3 Power-up the RipGO! Device

The **RipGO!** device is powered using either the internal rechargeable battery or external power source. Skip steps 1 and 2 when operating the **RipGO!** device with battery.

NOTE: The Battery Pack must be inserted when operating the RipGO! device with the power adapter.

1. Connect the supplied power adapter to a wall mount socket.
2. Connect the DC jack of the power adapter to the **RipGO!** device.

3. Insert a music CD (MP3, WMA or audio CD, not included in the package) into the **RipGO!** device as described in the section 3.2.1 "Inserting a CD."

NOTE: The LCD displays shown in step 4 and the subsequent three sections (3.4 to 3.6) assume the music CD inserted in step 3 is a MP3-CD whose Volume Label is MP3 Player Demo. It has three directories: [Directory 1], [Directory 2] and [Directory 3], and in the directory [Directory 1], there are 9 MP3 files: track01.mp3, track02.mp3,…. , track09.mp3.

The LCD display in your your RipGO! device will look different from this manual due to the different contents in your music CD.

4. Press the **PLAY** ⏯ button to power-on the **RipGO!** device. It detects and searches the contents of the CD and displays the **Opening Screen** – showing the CD identity (volume label) within a pair of square brackets.

Figure 3.3 – Opening Screen Display

3.4 Playing Entire Disc

1. From the Opening Screen, depress the **PLAY** button, and the **RipGO!** device starts to play the entire disc sequentially.

2. Use the **EQ** button to cycle through the different equalizer settings.

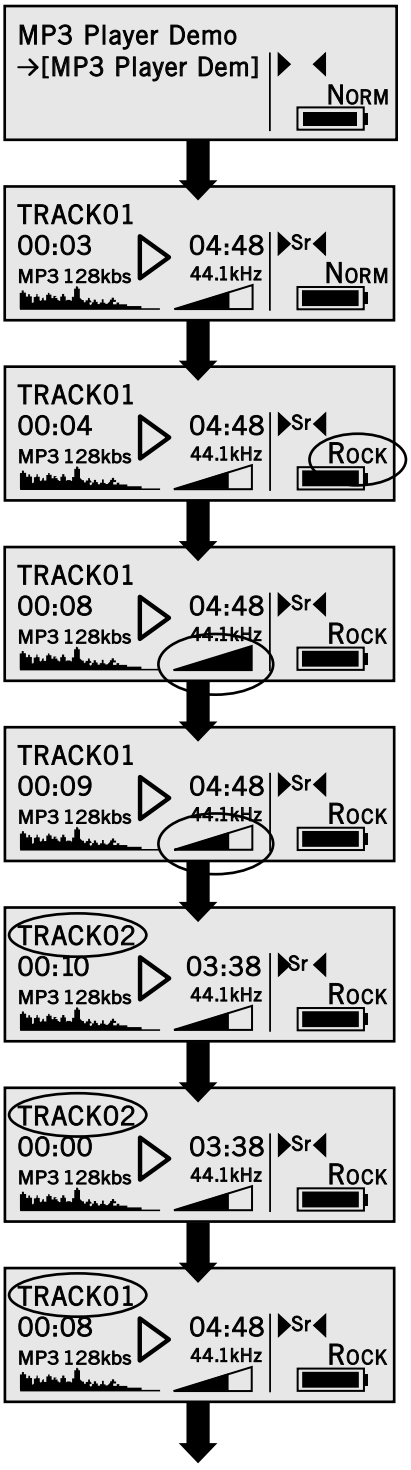
3. Use the **+VOLUME** button to increase the volume.

4. Use the **-VOLUME** button to decrease the volume.

5. Press the **SKIP FORWARD** button to advance to next track.

6. If a track has played for more than 1 second, press the **SKIP BACKWARD** button to restart playing the current track.

7. If a track has played for less than 1 second, press the **SKIP BACKWARD** button to play the previous track.

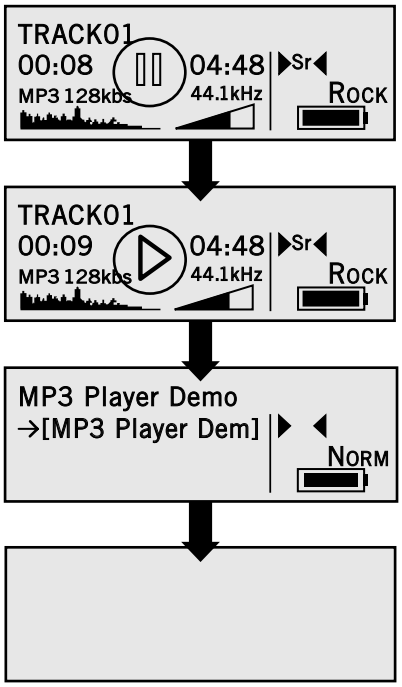


8. To pause playing, press the **PLAY** ⏯ button once.

9. To resume playing, press the **PLAY** ⏯ button again.

10. The **RipGO!** device returns to the Opening Screen display either after playing the entire disc or when the **STOP** ⏹ button is pressed.

11. Press the **STOP** ⏹ button to power-off the **RipGO!** device.



Audio music selections on the installation disc are furnished by Liquid Audio

liquid audio™

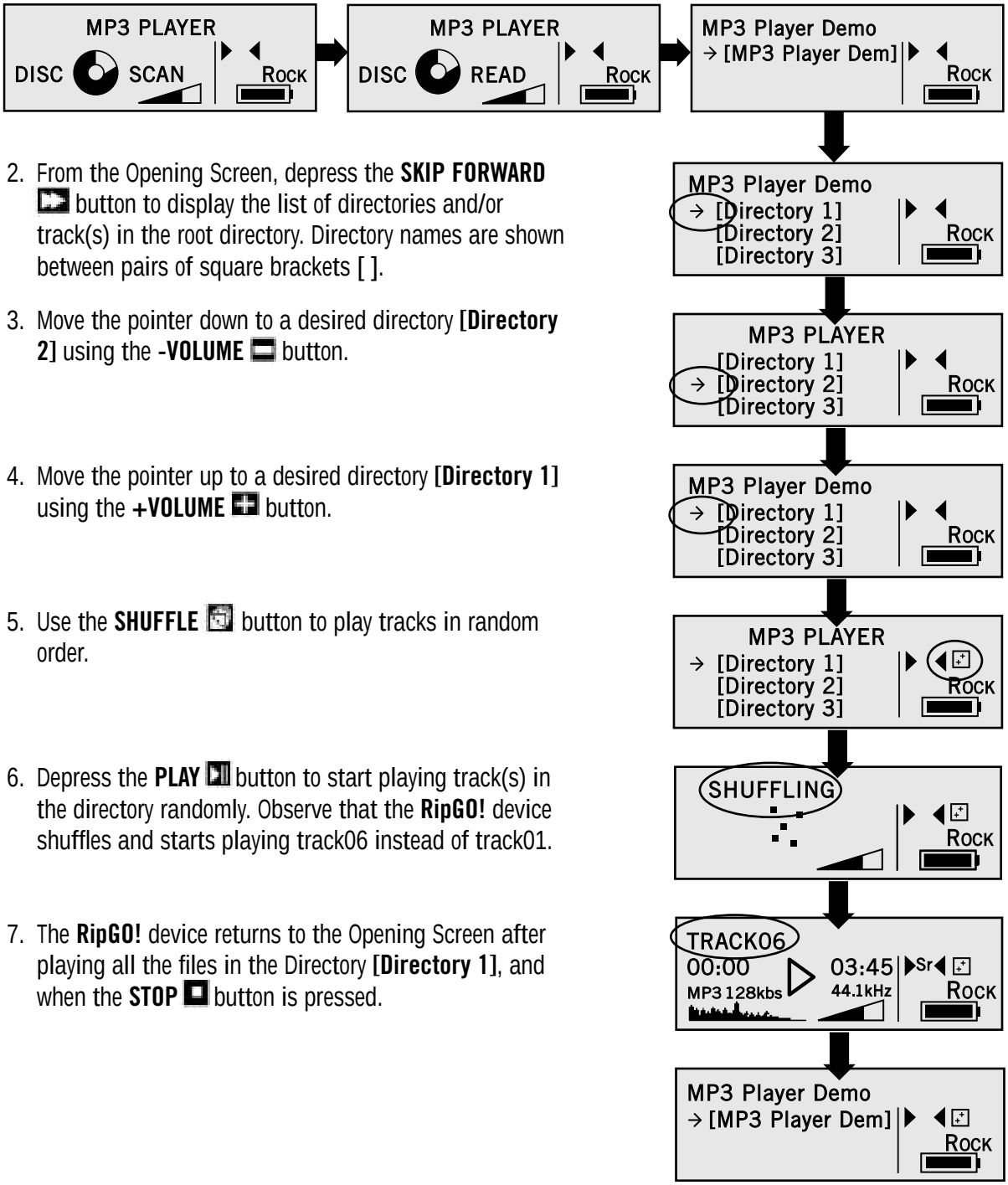
- Butterfly Jones–***Anywhere But Now***
- Ponticello–***Heat Into Light***
- Mary Pearson–***In Your Arms***
- TK Blue–***Eyes of the Elders***
- Lara Downs–***Polonaise from Eugene Onegin***

Other selections are furnished by Compass Productions

compass | productions

3.5 Playing a Directory Randomly

1. Press the **PLAY** button to power-on the **RipGO!** device, if it is not on already. Note that the **RipGO!** device remembers the previous EQ and volume settings.



2. From the Opening Screen, depress the **SKIP FORWARD** button to display the list of directories and/or track(s) in the root directory. Directory names are shown between pairs of square brackets [ ].

3. Move the pointer down to a desired directory **[Directory 2]** using the **-VOLUME** button.

4. Move the pointer up to a desired directory **[Directory 1]** using the **+VOLUME** button.

5. Use the **SHUFFLE** button to play tracks in random order.

6. Depress the **PLAY** button to start playing track(s) in the directory randomly. Observe that the **RipGO!** device shuffles and starts playing track06 instead of track01.

7. The **RipGO!** device returns to the Opening Screen after playing all the files in the Directory **[Directory 1]**, and when the **STOP** button is pressed.

3.6 Playing Favorite Tracks

1. From the Opening Screen, move the pointer to the desired directory **[Directory 1]**. Press the **SKIP FORWARD** button to display the track(s) in this directory.

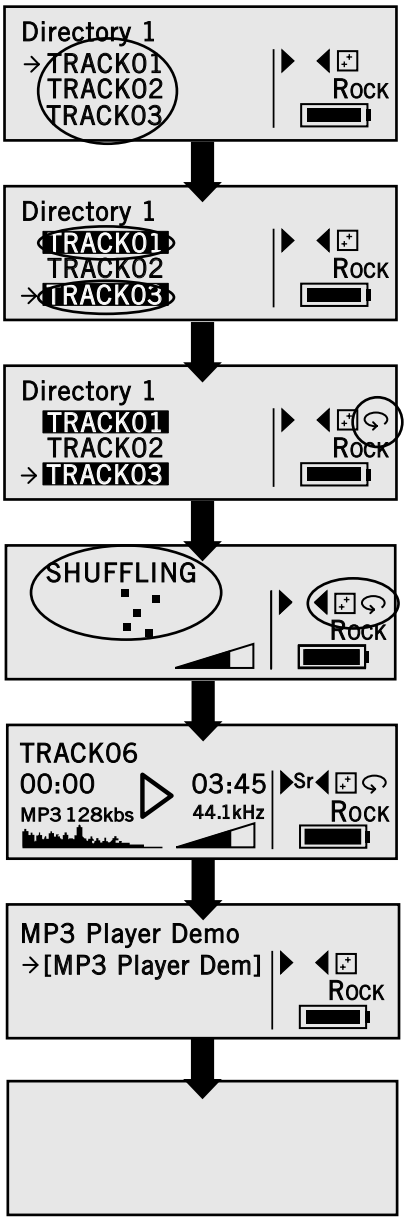
2. Using the **VOLUME CONTROL** and buttons, move the pointer to your favorite track(s). Press and hold the **EQ** button for 1 second to select the track(s). The selection is highlighted.

3. To repeat playing the selected track(s), press the **REPEAT** button once.

4. Press the **PLAY** button to start playing your tracks. If the Shuffle function is selected the **RipGO!** device will repeat playing the selected track(s) in random order.

5. The **RipGO!** device continues playing the selected tracks (if in Repeat mode) until the **STOP** button is pressed. The **RipGO!** device then returns to the Opening Screen.

6. Press the **STOP** button to power-off the **RipGO!** device.



4.0 Using the RipGO! Device as a Data Storage Drive

To configure the **RipGO!** device as a Data Storage drive you must first connect the drive to your computer. This section provides step by step instructions to guide you through the process of connecting and installing the **RipGO!** device to your computer.

When successfully installed, the **RipGO!** device is recognized by your computer as a USB mass storage device. The **RipGO!** device drive icon will be seen in **My Computer** and **Windows Explorer**.

You can use your **RipGO!** device just like a standard CD-R drive to:

- Read files,
- Copy files to your hard disk, floppy, etc.,
- Execute files,
- Write files to your **RipGO!** device using the bundled burning software.

To write to your **RipGO!** device you are required to use the provided burning software package. Refer to the software manual on how to install and operate the recording/player software. You may have to restart your computer after installation before using the software.

NOTE: Use the data mode when writing WMA and MP3 files to the RipGO! device. Nero Burning-ROM and most other recording software will convert the files to audio when using the audio mode of recording. The disc has a capacity of about 20 minutes of non-compressed audio.

4.1 Connecting the RipGO! Device to Your Computer

The **RipGO!** device can be connected to the computer in two ways:

- USB Mode: Power-up the **RipGO!** device with an active USB plug inserted, and it automatically goes into USB mode.
- Stand-Alone Player Mode: Power-up the **RipGO!** device in stand-alone player mode. When the **RipGO!** device displays the Opening Screen, insert an active USB plug and press the **STOP** button.

In both cases the LCD will display "Host Control" and only the **STOP** and **PLAY** buttons will function.

NOTES:

- **You may leave your computer on when you connect your RipGO! device. The USB device will automatically be detected by the plug-and-play feature of your OS.**
- **You may have to enable the USB interface via the system BIOS (Refer to your computer's documentation for details).**

Figure 4.1.1 – Connection to Computer

1. Connect the supplied power adapter to your **RipGO!** device and to the power socket.

NOTE: The unit should be powered using the power adapter (with the Battery Pack inserted) for maximum reliability, especially during the write process.

2. Connect the supplied USB cable, with the B-type (smaller) plug connected to the **RipGO!** device and the A-type (bigger one) terminal connected to the USB port on your computer.

NOTE: Look closely at the cable ends for correct orientation and mating when connecting.

3. Press the **PLAY** ⏯ button to power-on the **RipGO!** device, and the screen should display the USB logo.

Figure 4.1.2 – USB Mode Display

4. To disconnect from USB mode, press and hold the **PLAY** ⏯ button.
5. The Plug and Play feature of your OS should automatically detect the **RipGO!** device.

4.2 Installing RipGO! Drivers in Windows Me/Windows 2000/Windows XP

NOTE: The RipGO! device uses the generic drivers of Windows 2000 and Windows Me, no additional drivers are needed when using these OS. The screens displayed below show the detection/installation process in Windows Me. The sequence is slightly different in Windows 2000/XP. In either case, the detection/installation process requires no action from the user.

Windows Me detects the presence of the **RipGO!** device and installs the necessary drivers when the **RipGO!** device is first powering-up in the USB mode, as described in section 4.1.

Windows Me locates the software for the Imation **RipGO!** Device.

Windows Me installs the software for the "USB CD-ROM".

Once the **RipGO!** driver is installed, you should see the **RipGO!** drive icon in "My Computer" and "Windows Explorer." In addition, an "Unplug or Eject Hardware" Icon is shown on the extreme right of the Windows Task Bar, located at the bottom of your monitor.

4.3 Installing the RipGO! Driver in Windows 98SE

1. When the **RipGO!** device is first powered-up in the USB mode as described in section 4.1, Windows 98SE detects the presence of the **RipGO!** device and searches for the new driver. Click on the **Next** button in the following three displays to accept the default settings.

2. Check the box "Specify a location". Insert the Installation CD which contains the Windows 98SE driver. Enter the drive and directory where the **RipGO!** drivers are located. Click on the **Next** button to continue.

3. Windows 98SE is ready to install the driver files. Click on the **Next** button to continue.

4. When Windows 98SE has finished installing the software for the CD-R/W Client Driver, click on the **Finish** button to continue.

5. Windows 98SE detects the "Storage Port Driver" and installs the software.

6. After all the **RipGO!** drivers are installed, there should be a **RipGO!** drive icon in "My Computer" and "Windows Explorer".

NOTE: If you encountered any problem installing your RipGO! device, refer to the Troubleshooting Section.

4.4 Installing Burning Software

1. Insert the "Installation CD" into the computer's CD-ROM drive or into the **RipGO!** device once drivers have been installed.
2. Windows – Double-click on the CD-ROM drive (usually D, E or F) in "My Computer." Locate the software folder. Double-click on the "Setup" file (Setup.EXE).
3. Macintosh – Open the mounted install disc. Double-click on the installation icon.
4. Follow the instructions to install the software.

4.5 Uninstalling Burning Software

If for any reason you need to re-install the software, follow these steps to uninstall the software before re-installation.

For PC:

1. On the "Windows Task Bar," click "Start" -> "Settings" -> "Control Panel".
2. Double-click on the "Add/Remove Programs" icon.
3. Scroll through the list and highlight the software to be uninstalled.
4. Click on "Add/Remove" button.
5. Once the system has completely uninstalled the software, click "OK" to finish.

4.6 Removing the RipGO! Device from Your Computer

Windows Me / Windows 2000 / Windows XP

1. To remove the **RipGO!** device from the PC, double-click on the "Unplug or Eject" icon on the extreme right of the "Window Task Bar".

2. Remove the USB cable from the **RipGO!** device when the "Stop CD-ROM" message box appears on the monitor.
3. Press and hold the **PLAY** ⏯ button to return to the Player Mode.
4. Press the **STOP** ⏹ button to power-off the **RipGO!** device. Remove the power cable.

Windows 98SE

1. Press and hold the **PLAY** ⏯ button to exit USB mode.
2. Remove the USB cable from the **RipGO!** device.
3. Press the **STOP** ⏹ button to power-off the **RipGO!** device. Remove the power cable.

5.0 Troubleshooting

IMPORTANT! The **RipGO!** device is designed to the latest USB specification. However, there are some USB devices currently available on the market that do not conform to the USB standard. If you experience problems after connecting the **RipGO!** device, your system may contain an old driver or a non-compliant USB controller. Contact your computer dealer for possible solutions.

Green Power light does not come on and/or no display on LCD.

- **From Battery:**

1. Make sure there is sufficient charge in the batteries.

- **From Power Supply:**

1. Make sure you are using the **RipGO!** universal power supply that came with your **RipGO!** device.
2. Make sure the power supply connector is completely inserted into the **RipGO!** device power connector.
3. Make sure the power adapter is plugged into a working power outlet.
4. Carry out a power reset (through the underside of the **RipGO!** device).

The RipGO! device is not assigned a drive letter under Windows.

1. Check all the connections.
2. Make sure the device is in USB mode and not player mode.
3. Make sure the device is receiving power.
4. Make sure you are using the USB cable that came with your **RipGO!** device.
5. When using Windows 98SE, make sure the **RipGO!** drivers are installed.
6. Try reinstalling drivers. Remove it using **Add/Remove Programs** in control panel, restart Windows and reinstall the drivers.
7. Check to see if your USB controller is enabled and working properly.
   a. Right-click on the icon for **My Computer** and select **Properties**.
   b. Click on the tab for **Device Manager**.
   c. Double-click on **Universal Serial Bus Controller**.
   d. **Universal Host Controller** and **USB Root Hub** should be listed.
   e. If either of these has an exclamation or a red X next to it, or if the **Universal Serial Bus Controller** is not listed, there is a problem with the USB Controller. Call your computer manufacturer for information on getting it fixed.
   f. If you are connected to a USB hub, ensure the hub is connected correctly and has power.
   g. Try connecting the **RipGO!** device directly to one of the USB connections on your computer.

8. Try manually assigning a drive letter to your **RipGO!** device.
   a. Right-click on the icon for **My Computer** and select **Properties**.
   b. Click on the tab for **Device Manager**.
   c. Click on the plus sign (+) next to **CDROM**.
   d. Double-click on the drive icon for the **RipGO!** device.
   e. Click on the tab for **Settings**.
   f. Look for the box titled **Reserved Drive Letters** towards the bottom of the drive settings window. Select the drive letter you want to use in the **Start Drive Letter** dialog box. Note that the same drive letter should appear in the **End Drive Letter** dialog box.
   g. Reboot your system for the drive letter to take effect.
9. Check your BIOS to ensure USB is enabled. Refer to your computer's User's Guide or manual for directions.

NOTE: If you disconnect your RipGO! device and reconnect to the same USB port, the drive should be reassigned the same drive letter automatically. If you reconnect to a different USB port, you may have to manually reassign the drive a letter.

If the problem continues, there may be a driver conflict on your system. Please contact our technical department at support@imation.com.

The RipGO! device performance seems slow.

Other USB devices connected at the same time as the **RipGO!** device can affect the **RipGO!** device's performance, especially digital cameras or scanners that are processing large amounts of data.

If you are using a hub to connect several devices to your computer, disconnect the other devices and connect the device directly to the computer's USB port.

Write Speeds

Your **RipGO!** device is capable of writing data to CD-R discs at 4x speed. This means it can write the equivalent of 4 minutes of audio data in 1 minute. An audio CD can contain up to 20 minutes of audio data. This means that in 4x mode, it will take around 5 minutes to write 20 minutes of audio data. Writing non-audio data may be slower.

Average write speeds for a 4x CD writer:

- 4x for audio = 688 kb/second
- 4x for data = 600 kb/second (in other words, at 4x speed you can write about 34.8MB of data per minute).

Any CD recorder will seem slow compared to an average Ultra DMA hard drive, which can write about 33MB per second.

The speed difference stems from the vast differences in technologies. The hard drive uses magnetic technology to store its data. The CD recorder uses a laser to burn pits into a blank disc.

NOTE: The RipGO! device will only write at 4x speed if the DMA is enabled on the drive that you are copying from. Refer to the information on DMA in the section called Buffer Underruns.

Windows locks up when you disconnect the RipGO! device.

This may occur because Windows is trying to access a file that is on your **RipGO!** disc. Make sure that no files on the disc are in use when you unplug the drive. Eject the disc before disconnecting the USB interface cable and the **RipGO!** device to prevent data loss.

The RipGO! device stops responding, or information gets lost or corrupted while you are saving or copying files.

The problem is probably due to a non-compliant USB controller chip or other USB device on your computer system. Try the following suggestions:

- Carefully follow the **USB Guidelines**. They are designed to help you avoid some of the problems caused by non-compliant USB devices.
- Upgrade your software to Windows 98 Second Edition. This version of Windows 98 includes driver upgrades that fix most of the problems associated with USB controllers and motherboards.
- If the problem persists, you may want to upgrade the USB controller in your computer system to one that complies with the latest USB specification. In this case, contact your computer manufacturer for help.
- Do not connect or disconnect **any** USB device while the **RipGO!** device is transferring information – **data loss will result!**

CAUTION! USB devices that do not comply with the USB specification may cause system lockups or data loss when using your RipGO! device. If you are not sure that a USB device complies with the latest USB specification, contact the manufacturer of the device.

Your standard CD-ROM drive won't read recordable CDs.

Sometimes it appears that you wrote a CD without trouble and can read it on your **RipGO!** device. However, when you put it in a standard CD-ROM drive, one of the following happens:

- The **RipGO!** device rejects the CD.
- You get error messages such as no CD-ROM or not ready.
- You have random problems accessing some files or directories.

The problems may vanish when you use the CD on a different CD-ROM drive.

The lasers of some CD-ROM drives, especially older ones, are not calibrated to read recordable CDs because their surface is different from that of factory pressed CDs. If your CD-ROM drive reads mass-produced (silver) CDs but not recordable CDs, check with the CD-ROM Manufacturer to determine if this is the problem. In some cases an upgrade may be available to resolve the problem. The combination of CD brand and your **RipGO!** device can make a difference.

Problems reading recordable CDs with any CD-ROM drive

If you have successfully written a CD but have problems reading it, there are a number of possible reasons:

- If the CD can be read on a CD-R or CD-RW drive but not on a standard CD-ROM drive, check in the **Disc Info** and **Tools** to make sure that the session containing the data you just wrote is **closed**. CD-ROM drives cannot read from a session that is not closed. If the CD session is not closed, close the session.
- If your CD is not recognized, you receive an error message, or you have random problems accessing files from your CD, your CD-ROM drive may not be calibrated to read recordable CDs.
- The CD can read fine, but all the files have a read only attribute. This occurs because the file system extensions used to read back ISO 9660 discs in Windows assume that CDs are read-only medium, and therefore set the read-only attribute for files on all CDs. If you copy the files from CD back to your hard drive, this attribute is maintained until you change it using Windows Explorer.

Buffer Underruns

CD writing is a real time process, which must run constantly at the selected recording speed, without interruptions. The **RipGO!** device buffer is constantly filled with a reserve of data waiting to be written, so that small slowdowns or interruptions in the flow of data from the computer do not interrupt writing.

A buffer underrun error means that for some reason the flow of data from the source (e.g., hard drive, CD-ROM drive) to the **RipGO!** device was interrupted long enough for the **RipGO!** device buffer to be emptied, and writing was halted. If this occurs during an actual write operation, your recordable disc may be ruined.

Enabling DMA operation of your source drive (either the CD-ROM or hard drive) may help to resolve the buffer underrun error.

CAUTION! The troubleshooting steps below walk you through enabling DMA (Direct Memory Access) on your CD-ROM and hard drive, which may enhance your systems performance. However some older CD-ROMs and hard drives cannot use this setting and problems could result.

Before enabling DMA on your system, check the documentation that came with your computer to see if your hard drive and CD-ROM support DMA.

1. Right-click on **My Computer** on the Windows desktop and select **Properties**.
2. Click on the **Device Manager** tab.
3. Double-click on **CD-ROM**.
4. Double-click on the icon for your **source** CD-ROM.
5. Click on the **Settings** tab.
6. If the box next to the **DMA** setting does not already have a check mark in it, click on the box to enable DMA.
7. Click on **OK**.
8. Double-click on the **Disk Drives** icon.

9. Double-click on the icon for your computer's hard drive.
10. Follow steps 5–7 to enable the DMA setting for your hard drive.
11. Click on **OK** to finish.
12. Begin the recording session again.

Other possible causes of buffer underruns:

Hard Drive

- Extremely fragmented hard drive.
- Not enough space in the temporary directory (20MB recommended).
- Hard drive compression may cause buffer underruns. We do not recommend writing from a compressed hard disk or disk partition.
- Very old hard drives.

Other Hardware

- Spindown of CD-ROM drives you're copying data or audio from (for information on preventing CD-ROM spindown see your computer's manual or contact the CD-ROM drive manufacturer).
- Slow source device.
- Source device that transfers data in bursts.
- Incorrect recorder controller settings.
- Inability of the devices to sync properly.
- Overall system configuration.
- Computer unable to allow fast enough data transfer.
- Conflict with old device drivers. Do not use 16-bit (real-mode) device drivers in Windows 98SE. REM out any old CD-ROM drives you may have in your CONFIG.SYS file.
- Setting hard drive read ahead optimization to 'none' may cure buffer underruns in some cases:
- Go to **Start Menu**.
- Click on **Settings**; then **Control Panel**.
- Click on **System**; then **Performance**.
- Click on **Advanced Settings/File System**; then **Hard Disk**.
- Set **Read-ahead optimization** to **None**.
- Click on **OK** to accept settings.

Networks

- Recording across the network.
- A network may be too slow to maintain adequate throughput speed.
- Other network activity may also cause problems (other devices trying to access the **RipGO!** device).

Files to be recorded

- Recording many small files.
- Damaged source files (data loss).
- Trying to record files in use by the system or other applications.

Other

- Copying from a CD that is scratched, dirty or damaged.
- Recorder malfunction.

Checks/Prevention

- Defragment your hard drives at least once a week.
- Do not record across a network. Copy desired files to your local hard drive.
- If your source hard drive is more than five years old, make sure it does smart thermal recalibration (contact your hard drive manufacturer for more information).
- Record at a slower speed.
- It may be necessary to write audio at slower speeds than those you can achieve for data, since writing CD-DA audio requires streaming more bits per second to the **RipGO!** device.
- Keep the CDs, the recorder and your source CD-ROM drive free of dust.
- Do not try to copy empty directories, zero byte files, or files that may be used by the system at the time of recording.
- If your data includes more than 10,000 very small files, create a disc image first, or record at a slower speed.
- The temporary directory should always have space free at least twice the size of the largest file you are recording.
- The entire computer, from the motherboard bus to the **RipGO!** device itself, needs to be configured properly for faster recording and highest maximum sync transfer rate.

Errors recording at 4x speed on a Macintosh using the RipGO! device

This is a buffer underrun error caused by the Macintosh constantly polling the keyboard and mouse. As a result, the flow of data from the source (e.g., hard drive) is not able to supply the data to the **RipGO!** device at a fast enough rate for 4x operation. Select the 2x operation in the menu of NeroMAX to avoid this problem.

Appendix A–Important Safety Instructions

A.1 General Handling Instructions

Do not subject the RipGO! device to extreme force

Vibration during walking or exercising will not affect the **RipGO!** device. However, dropping the **RipGO!** device or dropping a heavy object on the **RipGO!** device may result in distorted sound or damage.

Keep the RipGO! device away from water at all times

- The **RipGO!** device may be damaged if water enters it.
- If the **RipGO!** device comes in contact with water, wipe it immediately with a dry cloth. If it does not function call technical support.

Store the RipGO! device carefully

Avoid keeping the **RipGO!** device near high heat source(s) or in a place with high humidity or strong magnetic field.

A.2 Cleaning the RipGO! Device

- Disconnect the power supply adapter from the wall outlet or power source before cleaning.
- Do not use liquid or aerosol cleaners.
- Use a damp cloth for cleaning.

A.3 Using and Replacing Battery

Lithium-Ion is safe, provided certain precautions are met when charging and discharging.

DO NOT:

- Attempt to recharge other batteries other than the type specified. Recharging non-rechargeable batteries (such as normal, heavy duty or alkaline batteries), OR different types of batteries (such as rechargeable alkaline batteries) may lead to an explosion or leakage and cause personal injury.
- Immerse the battery in water.
- Repair or disassemble the battery or remove the battery from its holder, this contains vital protection circuitry.
- Drop the battery or subject it to extreme force.
- Subject the battery to excessive heat.
- Short-circuit the battery, as this may result in skin burns.
- Use the battery to power other equipment. Powering other equipment with the battery could lead to heavy discharging resulting in excessive heat.

DO:

- Insert the battery according to the polarity markings on the product.
- Only use the specified battery charger to recharge battery. This will ensure battery performance and lifetime are maintained. Furthermore, the specified charger ensures batteries are not over-charged. Over-charging

can result in excessive temperature (body heat) which dramatically reduces battery lifetime.

- Keep batteries in a cool and dry place, away from heat moisture and metal objects when not in use.
- Immediately stop using the battery if there is discoloration, deformation or damage to casing or leakage.
- Handle leaking batteries with rubber gloves. Avoid direct contact with skin or eyes. If this happens, wash thoroughly with water and seek medical attention.
- Dispose of batteries as required by local ordinances or regulation.
- Keep the batteries out of reach of young children.

A.4 Servicing

Do not attempt to service any part of the product yourself. Only qualified service personnel should service the product.

A.5 Power Source

The product should only be operated with the bundled power source. If you are not sure of the power supply cord type in your home, consult your product dealer.

If you are using batteries with your product, refer to the operating instructions included in your documentation and markings on the product.

A.6 Proper Care and Usage

- Do not use any object to probe the openings of the product as this may result in electric shock or fire, and will also damage the product.
- Do not spill liquid of any kind on the product.

A.7 Health Hazards

Inhalation

Inhaling the fumes from the contents of an exposed battery may cause respiratory irritation. If this happens, breathe in fresh air and seek medical attention.

Skin Contact

Direct skin contact with the contents of an exposed battery may cause skin irritation and/or chemical burns. Remove contaminated clothing and wash the affected skin area with soap and water. If a chemical burn or the irritation persists, seek medical attention.

Eye Contact

If the contents of an exposed battery come in contact with the eyes, this may cause severe irritation and chemical burns. Flush the eyes thoroughly with water for at least 15 minutes, lifting the upper and lower eyelids while doing so, until no evidence of the chemical remains. Seek medical attention.

Appendix B–Regulatory Information

B.1 FCC

The computer equipment described in this manual generates and uses radio frequency (RF) energy. If it is not installed and operated in strict accordance with the manufacturer's instructions, interference to radio and television may result.

The **RipGO!** device complies with the FCC standards listed below. Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

EN55022 (1994) ITE emission standard

EN55024 (1998) ITE immunity standard

EN61000-3-2 (1995) Mains Harmonics

EN61000-3-3 (1995) Voltage Fluctuation

CFR47 (1995) Part 15 Sub Part B (US Federal code of regulations)

The rules are designed to provide reasonable protection against radio and television interference in a residential installation. Although the equipment has been tested and found to comply with the allowed RF emission limit as specified in the above-cited rules, there is no guarantee that interference will not occur in a particular installation. Interference can be determined by turning the equipment off and on while monitoring radio or television reception. The user may be able to eliminate any interference by implementing one or more of the following measures:

- Reorient the affected device and/or its receiving antenna.
- Increase the distance between the affected device and the computer equipment.
- Plug the computer and its peripherals into a different branch circuit from that used by the affected device.
- If necessary, consult an experience radio/television technician for additional suggestions.

IMPORTANT! Imation must expressly approve changes or modifications to the electronics or enclosure of this product. Otherwise, the user's authority to operate this product may be voided by the FCC.

B.2 Laser Safety

This unit employs a laser. Do not remove the cover or attempt to service this device when connected due to possibility of eye damage.

CAUTION! Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser radiation exposure.

CAUTION! Invisible laser radiation when open. Avoid exposure to beam.

Appendix B–Regulatory Information

B.3 Laser

Type:	Optical CD-R Pick-UP
Model:	SF-WO4
Wave Length:	785nm @ 25ºC
Emission Power:	0.7mW (Read)
	27mW (Write)

imaginative solutions.

Imation Enterprises Corp.
1 Imation Place
Oakdale, MN 55128-3414
888 466.3456 phone
800 537.4675 fax
www.imation.com
info@imation.com

Imation Canada Inc.
P.O. Box/C.P. 5440
London, Ontario
N6A 5Z6 Canada
888 466.3456 phone *(tél)*
888 864.2260 fax *(télec)*

Appendix C–How to Get Help

Imation Technical Support:

www.imation.com

info@imation.com

800 936.4468 U.S.A. and Canada

1800 244 181 Australia

0800 445 922 New Zealand

852 216 12000 Hong Kong

65 383 7655 Singapore

0800-021-666 & 0800-056-058 Taiwan

00971 4 881 8008 Middle East

TO REGISTER YOUR IMATION RIPGO! DEVICE:
Go to **www.imation.com/register**
and follow the instructions.

Check the **www.imation.com/RipGO** site frequently for **RipGO!** device feature enhancements and user updates

OWNER'S RECORD:

For your convenience, record the model number and serial number located on the bottom of the device, in the space provided below. Please refer to it when you contact Imation.

Model No.
IMR040006EU

Serial No.
_____

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